

sentinel-2

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Mission Status Report 133

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Mission Status

- The Sentinel-2 mission is performing global and systematic acquisitions with 5-day revisit.
- The Sentinel-2 acquisition scenario is published at: <https://sentinels.copernicus.eu/web/sentinel/missions/sentinel-2/acquisition-plans>
- The acquisition scenario has been executed with an average MSI sensing time per orbit of 19.5 minutes for Sentinel-2A and 19.5 minutes for Sentinel-2B

- The routine production of Level-1C top-of-atmosphere products is available in all the Data Hubs.
- Level-2A operational production is available over Euro-Mediterranean region since 26 of March 2018. Level-2A products are available on the Copernicus Open Access Hub and the Copernicus Services Data Hub. More details are available on this [link](#).
- To date, a total of 155,117 users have self-registered on the Copernicus Open Access Hub.
- About 4.53 millions products are available for download, cumulating a total volume of 2.45 Petabytes. Overall, a total volume of 20.54 Petabytes has been downloaded by the user communities from the Copernicus Open Access Hub, the Copernicus Services Data Hub, the Collaborative Data Hub and the International Hub.
- The 2017 Sentinel Data Access Annual Report has been published and is available [here](#). This report takes up from where the 2016 report left off, and analyses the uptake of Copernicus Sentinel data and the performance of the Sentinel Data Access System during the period 01 December 2016 to 30 November 2017.

- The latest data quality information is now available in two reports, one for [L1C products](#) and one for [L2A products](#).
- The 5th Sentinel-2 Quality Working Group (QWG) meeting was held at ESA/ESRIN premises on 12-13 June 2018 with the participation of representatives from the Copernicus Land Monitoring Service (Global, Pan-European and Local components) and the Copernicus Emergency Management Service.
- The publication of a third batch of Sentinel-2A single tile repackaged products (into the 'Complete Single Tile' format introduced in December 2016) started on 15th of June 2018. The overall affected dataset that will eventually be published covers the sensing period from 04 July 2015 to 06 December 2016 (Sentinel-2A only). More information at the news attached to this [link](#).

- The Flight Operations Segment (FOS), ensuring the monitoring, control and commanding of the satellites, is operating nominally.
- The Payload Data Ground Segment (PDGS) is operating nominally through its different operational services, i.e. Core Ground Stations (CGS), Processing and Archiving Centres (PAC), Mission Performance Centre (MPC), Precise Orbit Determination (POD), Payload Data Management Centre (PDMC) and Wide Area Network (WAN).
- X-band data acquisitions are routinely performed by the PDGS over Matera, Maspalomas and Svalbard core stations. The acquired data is systematically processed to Level-0 and Level-1 products, circulated, and archived.
- The European Data Relay System (EDRS) service is being used operationally for both Sentinel-2A and Sentinel-2B.

- A special issue in the Remote Sensing of Environment journal on "Science and Applications with Sentinel-2" is available online [here](#). This special issue has been jointly edited by ESA and the European Commission (EC) Joint Research Centre (JRC). Additional papers will be progressively published as they are accepted.

Outlook

- Sentinel-2 Constellation Mission Operations Review with board meeting on 27 June 2018 at ESA/ESRIN premises.
- New batch of L1C product evolutions (e.g. tile sensing time, detectors footprint mask) by July 2018.
- Start of Level-2A worldwide production during Q3 2018 (delayed from previous announcement for July due to issues with transfer to operations).
- Completion of the conversion of the archive into single-tile format by Q3 2018.
- Production of geometrically refined L1C products making use of the Global Reference Image (GRI) by Q2 2019
- Production with improved 30-meter resolution Digital Elevation Model (DEM) by Q2 2019.